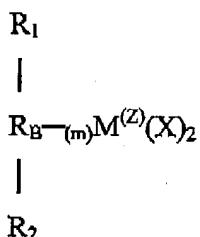


IN THE CLAIMS:

Please cancel claims 1-12 and 20, without prejudice, and amend the remaining claims as follows:

Claims 1-12. (Cancelled)

13. (Currently Amended) A catalyst system comprising an activated bridged compound having the formula:



wherein M is a 3d, 4d or 5d transition metal; each X is an atom or group covalently or ionically bonded to M and may are be the same or different; R<sub>1</sub> and R<sub>2</sub> may are be the same or each may be different and are substituted or unsubstituted cyclopentadienyl groups or aromatic rings; R<sub>B</sub> is a structural bridge between the cyclopentadienyl or aromatic rings R<sub>1</sub> and R<sub>2</sub> and imparts stereorigidity to the rings, and comprises comprising three heteroatoms at least one heteroatom bonded to M, with each of R<sub>1</sub> and R<sub>2</sub> bonded to the same or different heteroatom of R<sub>B</sub> which heteroatom is also bonded to M; Z is the coordination number of M and is greater than or equal to 4; m is the number of bonds between M and heteroatoms of R<sub>B</sub> and to impart stereorigidity m≥2; and with R<sub>1</sub>, R<sub>2</sub> and R<sub>B</sub> selected to provide a catalyst component with C<sub>1</sub>, C<sub>2</sub> or C<sub>3</sub> symmetry.

14. (Currently Amended) The system of claim 13, wherein M is selected from the group consisting of transition metals and lanthanide metals, wherein the heteroatoms are selected from the group consisting of O, N, S and P.

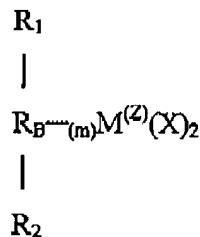
15. (Currently Amended) The system of claim 13, wherein R<sub>B</sub> comprises at least three heteroatoms bonded to M, and wherein R<sub>1</sub> is bonded to one of the heteroatoms, and R<sub>2</sub> is bonded to a different one of the heteroatoms.

16. (Currently Amended) The system of claim 13, wherein M is selected from the group consisting essentially of among Fe, Co and Ni.

17. (Currently Amended) The system of claim 13, wherein M is Fe, R<sub>B</sub>-comprises three heteroatoms bonded to M, and wherein R<sub>1</sub> is bonded to one of the three heteroatoms, and R<sub>2</sub> is bonded to a heteroatom different than the heteroatom to which R<sub>1</sub> is bonded; M is selected from among Fe, Co and Ni.

18. (Currently Amended) The system of claim 17, wherein each X is independently selected from the group consisting of among halides and substituted or unsubstituted hydrocarbons.

19. (Currently Amended) A method of making a catalyst system comprising contacting an activator with a bridged compound having the formula:

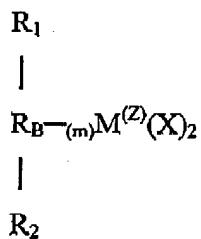


wherein M is a 3d, 4d or 5d transition metal; each X is an atom or group ~~equivalently or ionically bonded to M and are may be the same or different; R<sub>1</sub> and R<sub>2</sub> are may be the same or each may be different and are substituted or unsubstituted cyclopentadienyl groups or aromatic rings; R<sub>B</sub> is a structural bridge between the cyclopentadienyl or aromatic rings R<sub>1</sub> and R<sub>2</sub> and imparts stereorrigidity to the rings, and comprises three heteroatoms at least one heteroatom bonded to M, with each of R<sub>1</sub> and R<sub>2</sub> bonded to the same or different heteroatom of R<sub>B</sub> which heteroatom is also bonded to M; Z is the coordination number of M and is greater than or equal to 4; m is the number of bonds between M and heteroatoms of R<sub>B</sub> and to impart stereorrigidity m≥2; and with R<sub>1</sub>, R<sub>2</sub> and R<sub>B</sub> are selected to provide a catalyst component with C<sub>1</sub>, C<sub>2</sub> or C<sub>S</sub> symmetry.~~

20. (Cancelled)

Please add new claim 21 to replace cancelled claims:

21. A catalyst system comprising the formula:



wherein M is a 3d, 4d or 5d transition metal; each X is an atom or group ~~equivalently or ionically bonded to M and are the same or different; R<sub>1</sub> and R<sub>2</sub> are the same or different and are substituted or unsubstituted cyclopentadienyl groups; R<sub>B</sub> is a structural bridge~~

between R<sub>1</sub> and R<sub>2</sub> comprising three heteroatoms-bonded to M, with each of R<sub>1</sub> and R<sub>2</sub> bonded to the same or different heteroatom of R<sub>B</sub> which heteroatom is also bonded to M; Z is the coordination number of M and is greater than or equal to 4; and m is the number of bonds between M and the heteroatoms of R<sub>B</sub> and is greater than or equal to 2.